N,N-Di-n-propyl-amphetamine

Other names: N,N-Dipropylamphetamine
Inchi: InChI=1S/C15H25N/c1-4-11-16(12-5-2)14(3)13-15-9-7-6-8-10-15/h6-10,14H,4-5,11-13H2
InchiKey: COGKMFLJJLBANK-UHFFFAOYSA-N
Formula: C15H25N
SMILES: CCCN(CCC)C(C)Cc1ccccc1
Mol. weight [g/mol]: 219.37

Physical Properties

Property code	Value	Unit	Source
gf	296.17	kJ/mol	Joback Method
hf	-54.15	kJ/mol	Joback Method
hfus	28.14	kJ/mol	Joback Method
hvap	52.91	kJ/mol	Joback Method
log10ws	-3.89		Crippen Method
logp	3.740		Crippen Method
mcvol	208.430	ml/mol	McGowan Method
pc	1856.31	kPa	Joback Method
ripol	1745.00		NIST Webbook
tb	581.28	K	Joback Method
tc	774.31	K	Joback Method
tf	302.70	K	Joback Method
vc	0.779	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	530.90	J/mol×K	581.28	Joback Method
cpg	550.32	J/mol×K	613.45	Joback Method
cpg	568.67	J/mol×K	645.62	Joback Method
cpg	586.00	J/mol×K	677.80	Joback Method
cpg	602.35	J/mol×K	709.97	Joback Method
cpg	617.77	J/mol×K	742.14	Joback Method
cpg	632.30	J/mol×K	774.31	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R18204&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume